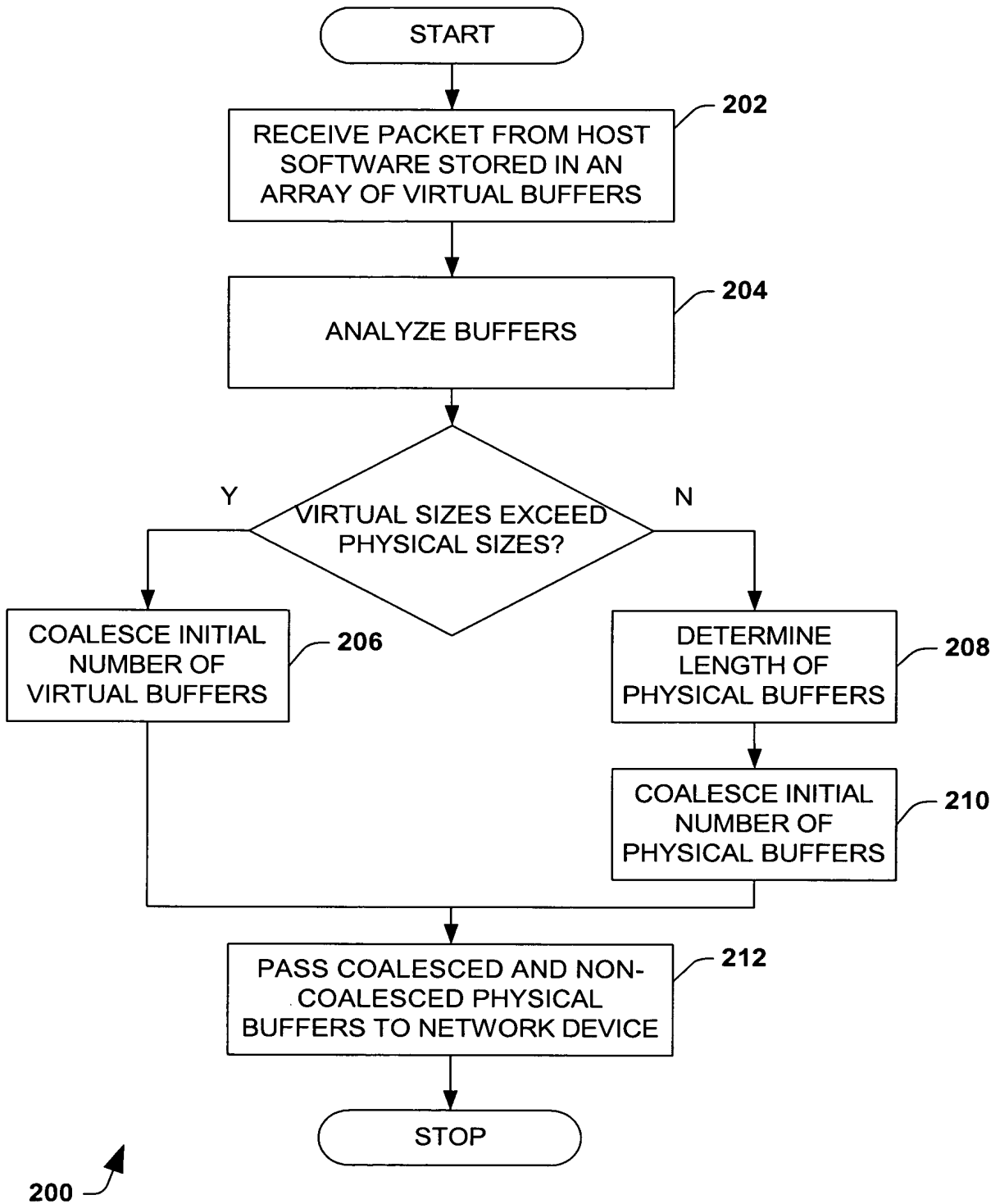


FIG. 1

**FIG. 2**

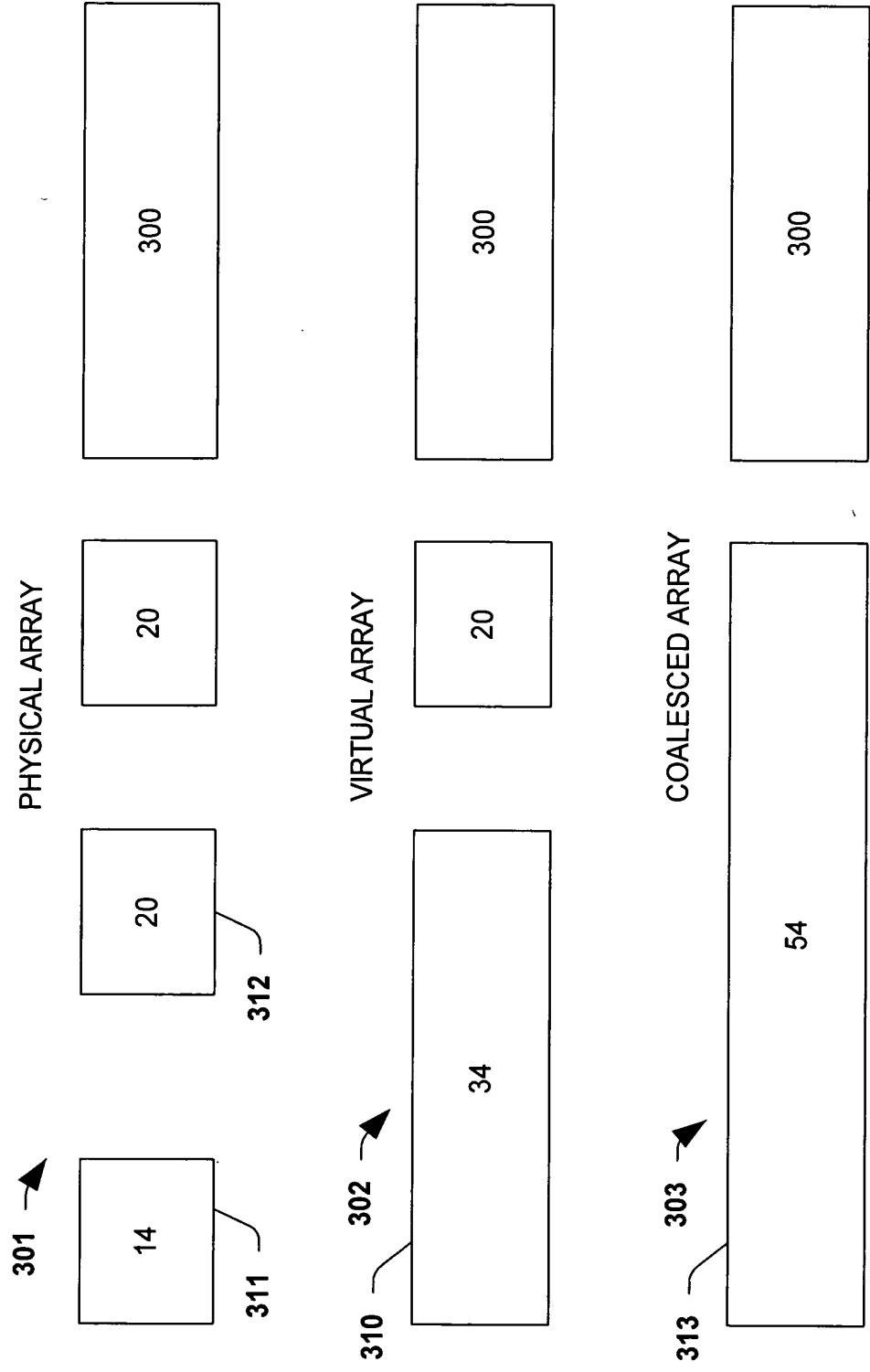


FIG. 3

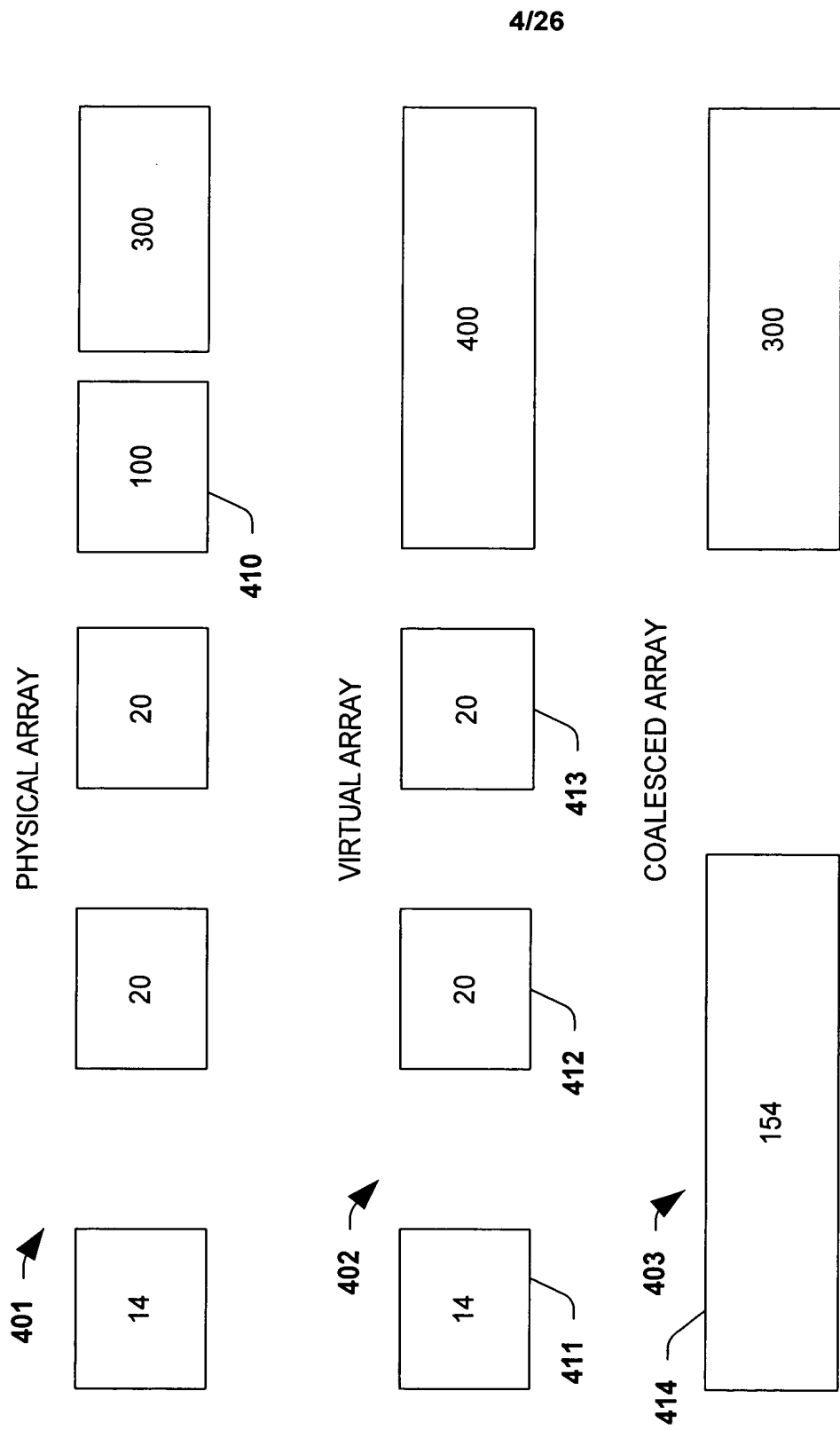
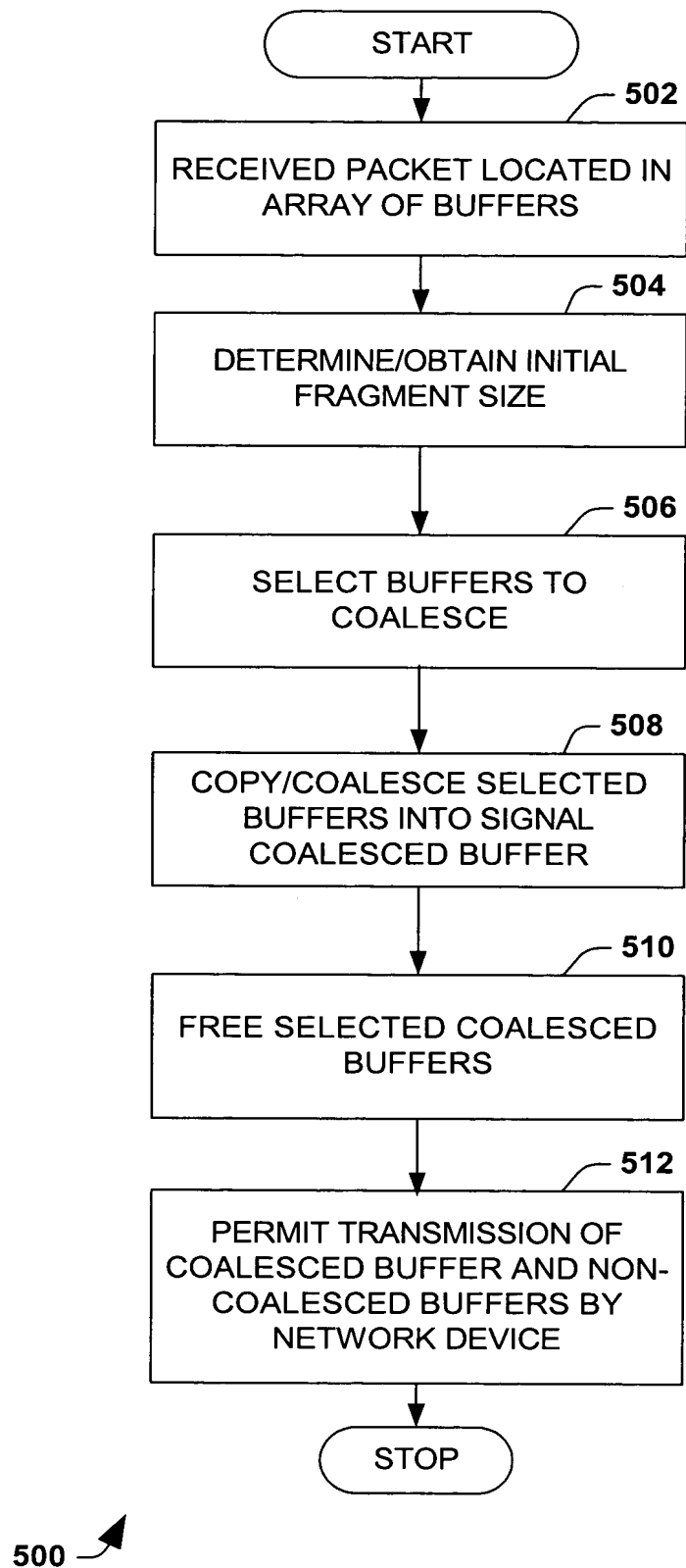
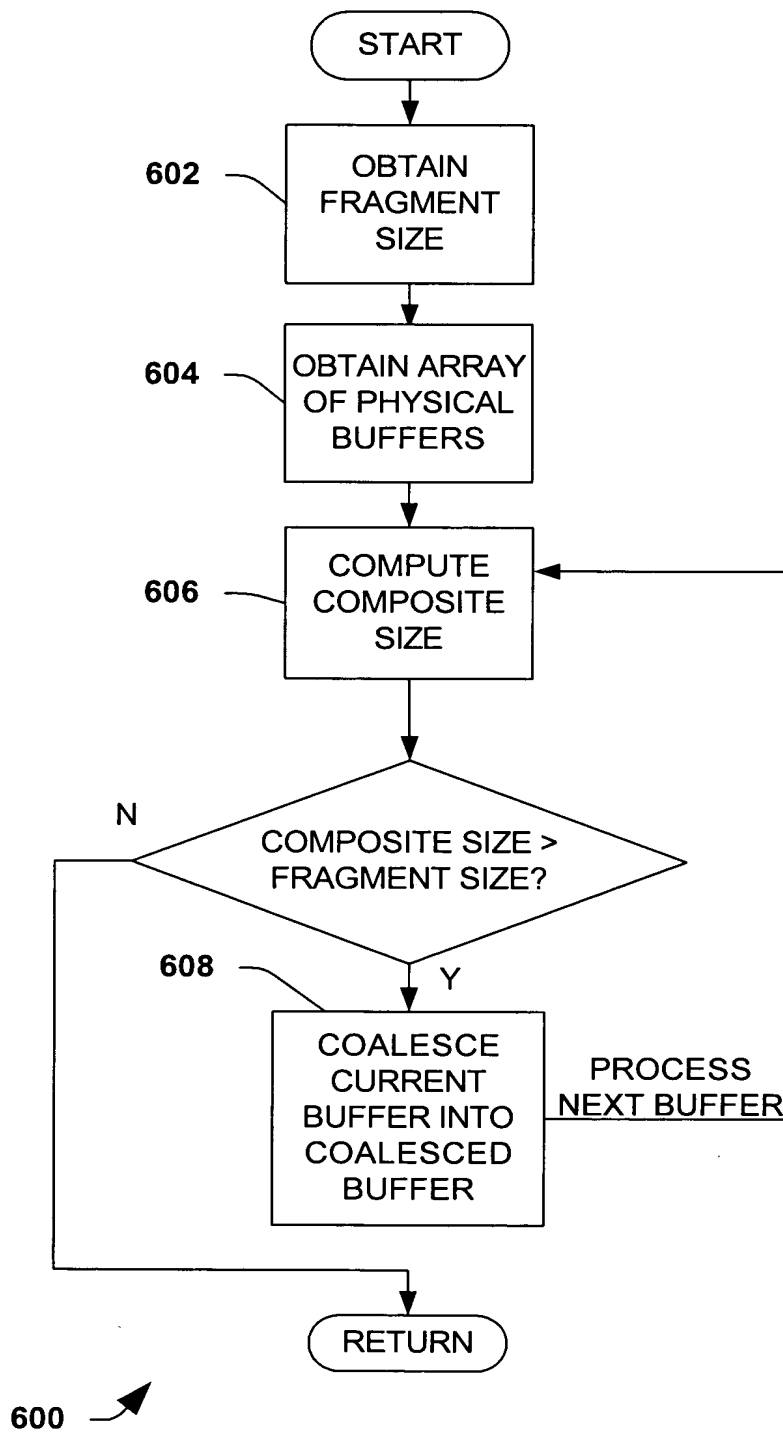
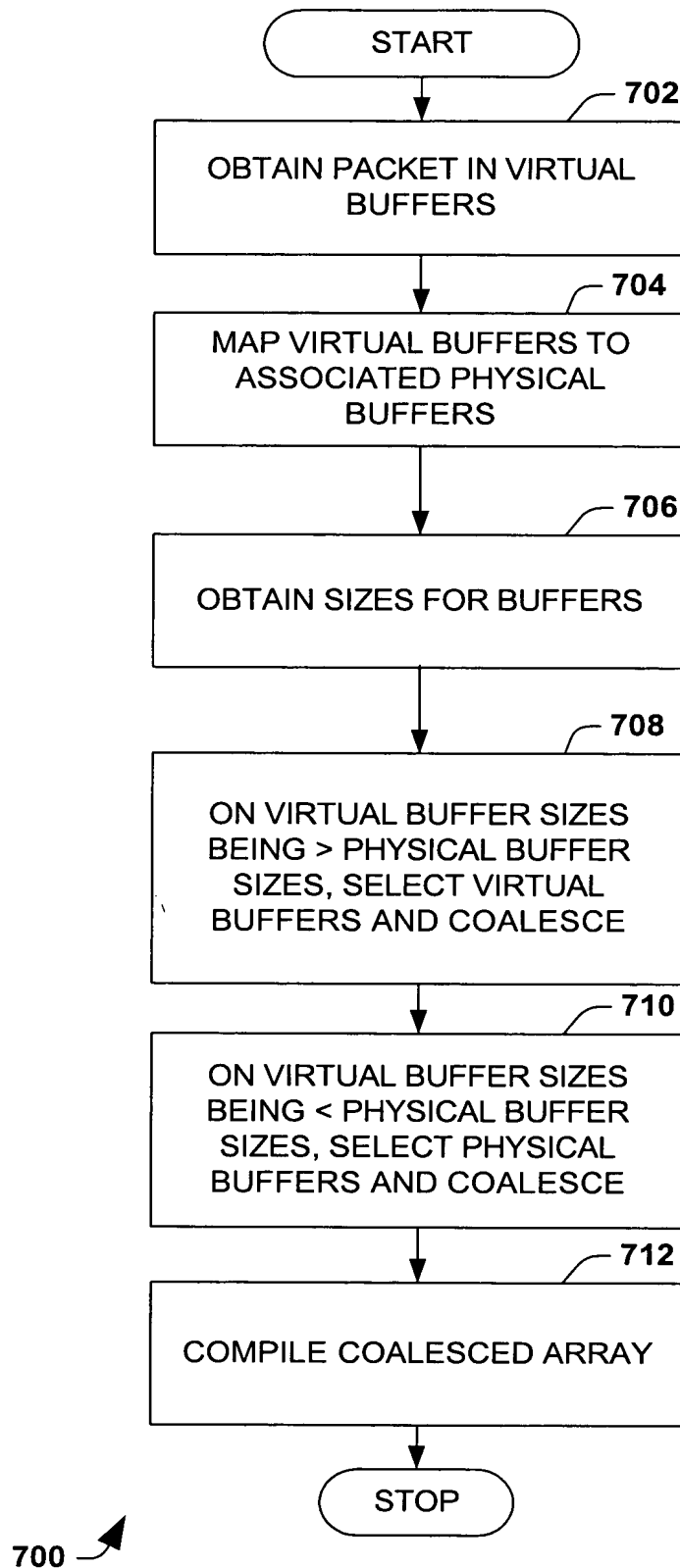


FIG. 4

**FIG. 5**

**FIG. 6**

**FIG. 7**

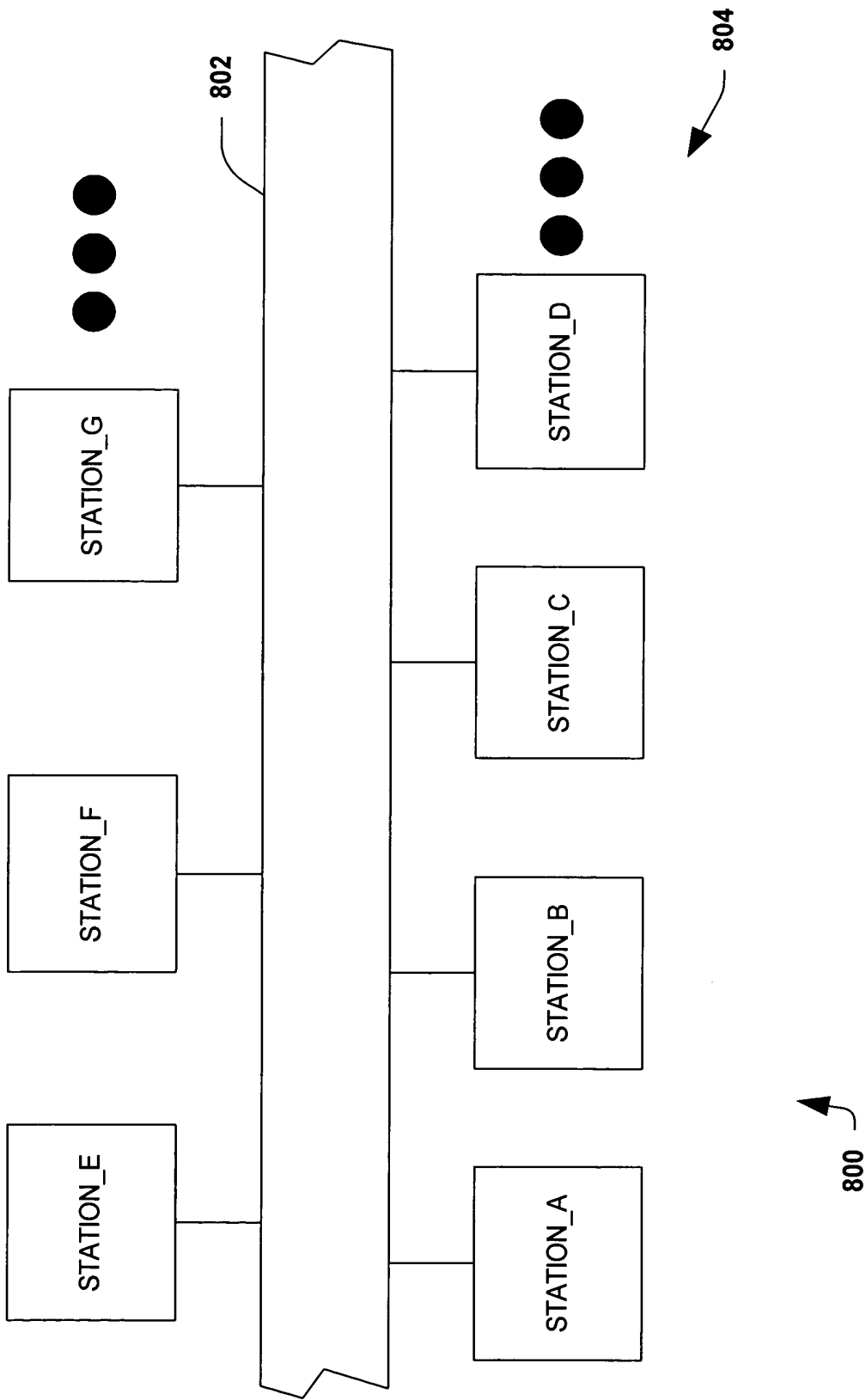


FIG. 8

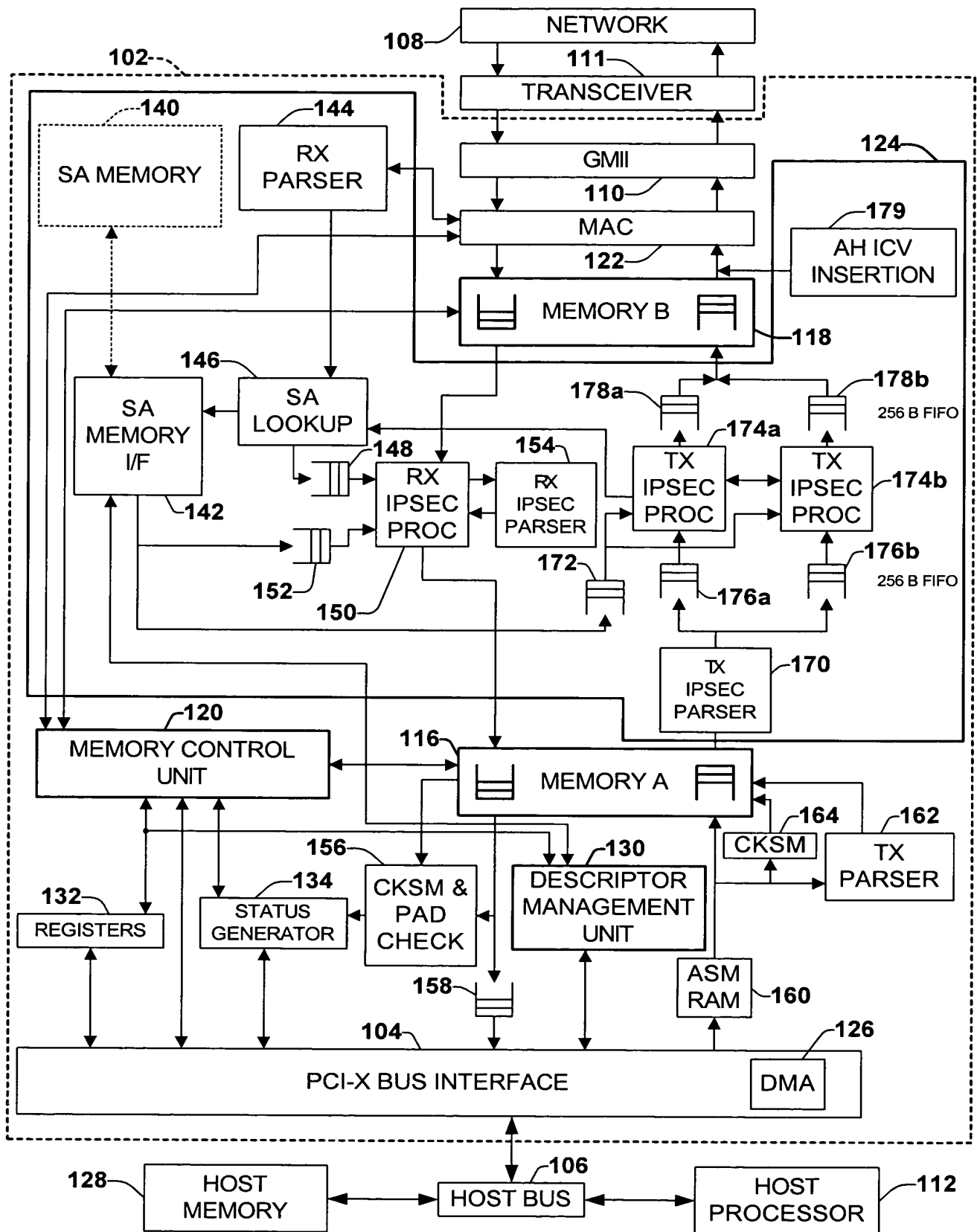


FIG. 9A

180

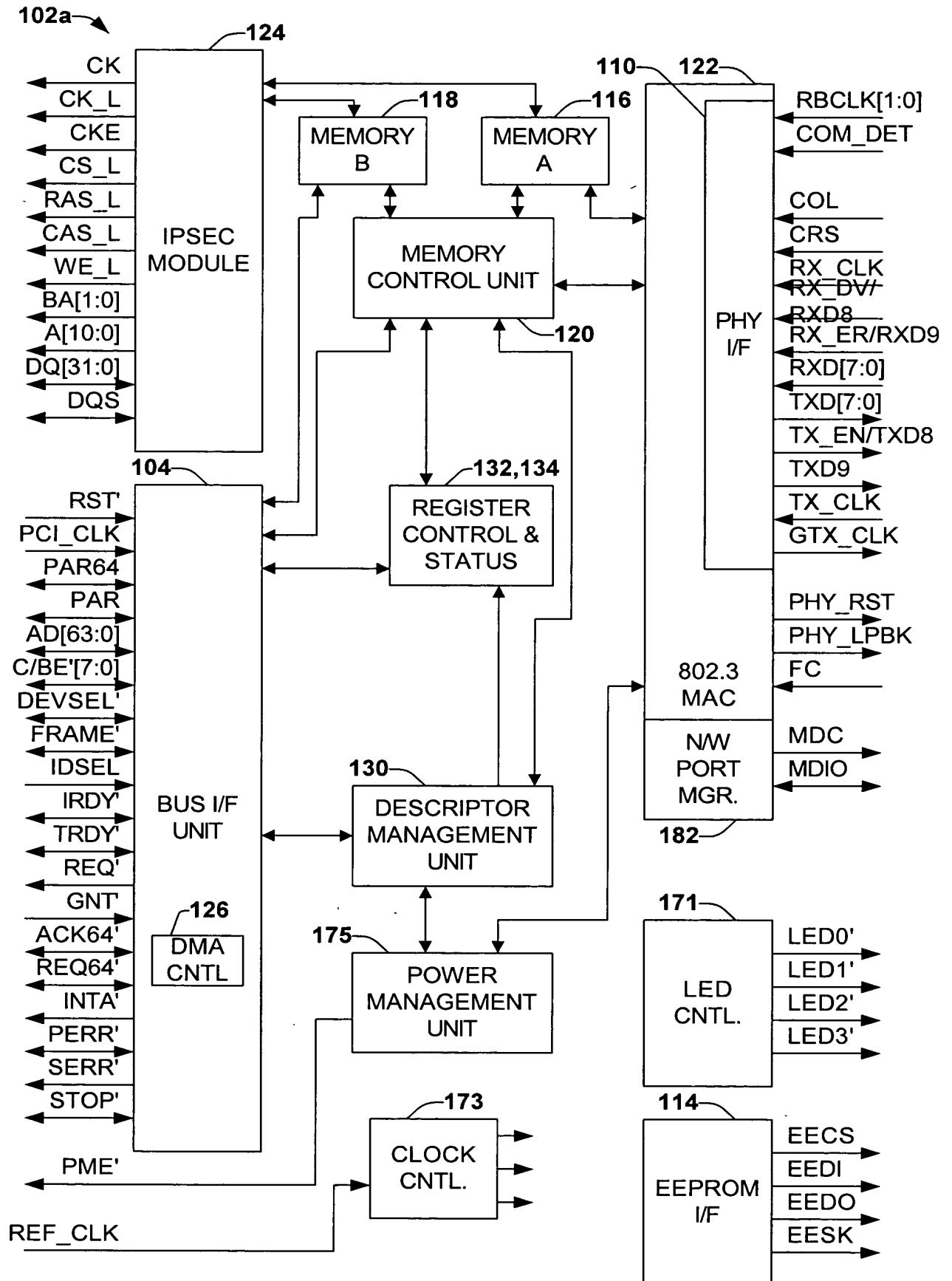
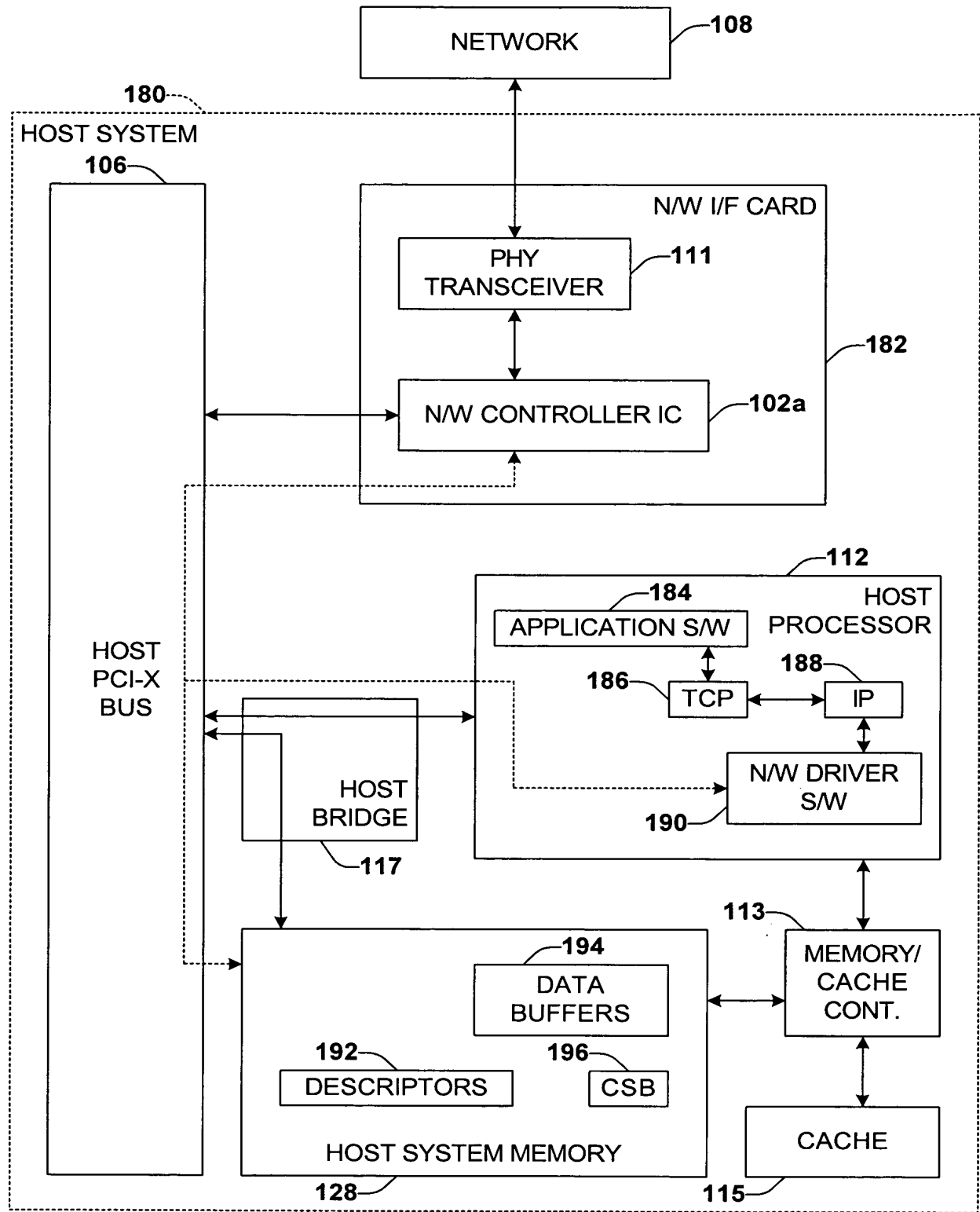


FIG. 9B

**FIG. 10**

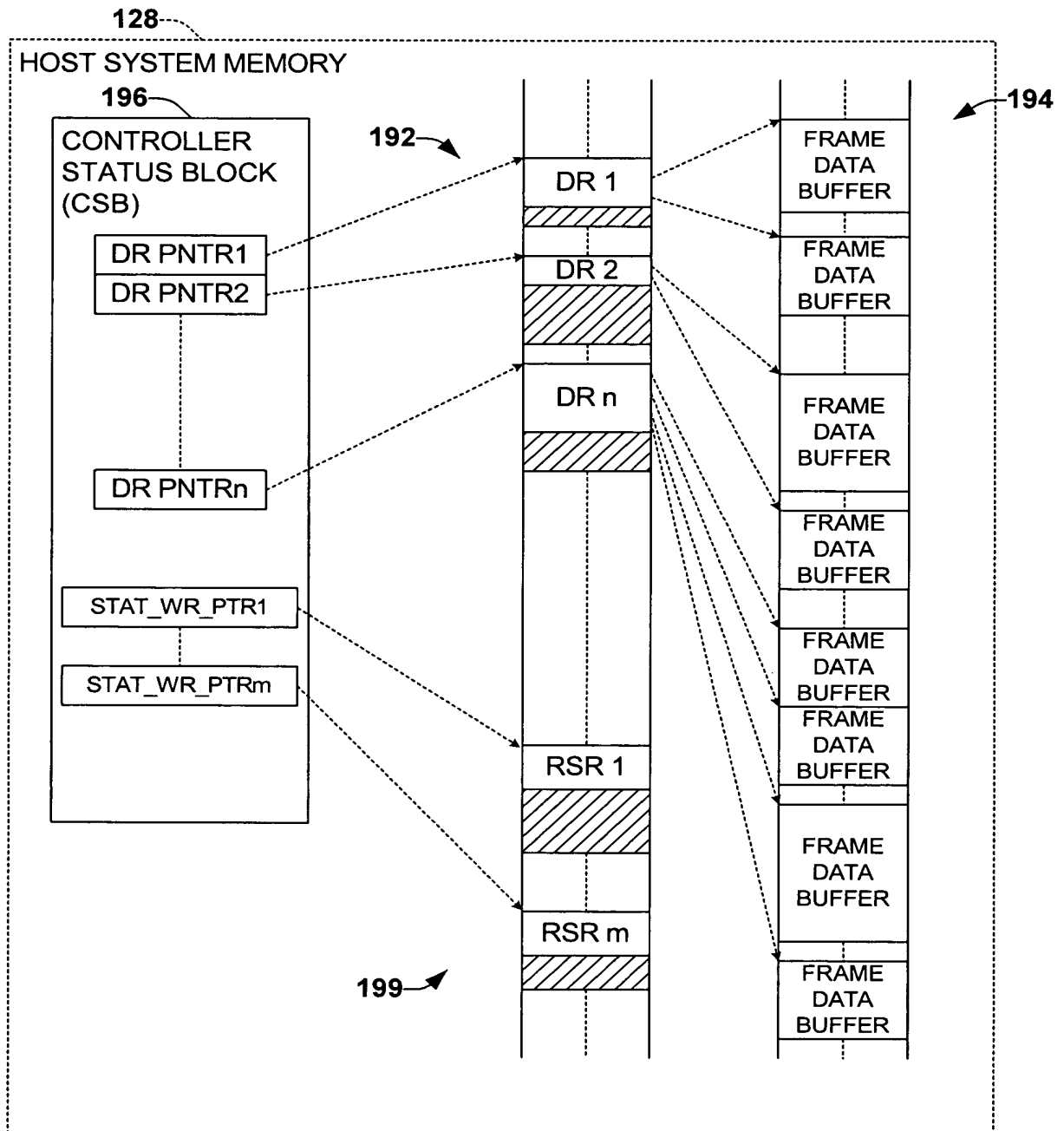


FIG. 11A

196

CSB

TX_RD_PTR0
TX_RD_PTR1
TX_RD_PTR2
TX_RD_PTR3
STAT_WR_PTR0
STAT_WR_PTR1
STAT_WR_PTR2
STAT_WR_PTR3
INT0_COPY

FIG. 11B

132

REGISTERS

RX_RING[3:0]_BASE
TX_RING[3:0]_BASE
RX_RING[3:0]_LEN
TX_RING[3:0]_LEN
TX_WR_PTR[3:0]
RX_WR_PTR[3:0]
STAT_RING[3:0]_BASE
STAT_RING[3:0]_LEN
RX_BUF_LEN
CSB_ADDR

FIG. 11C

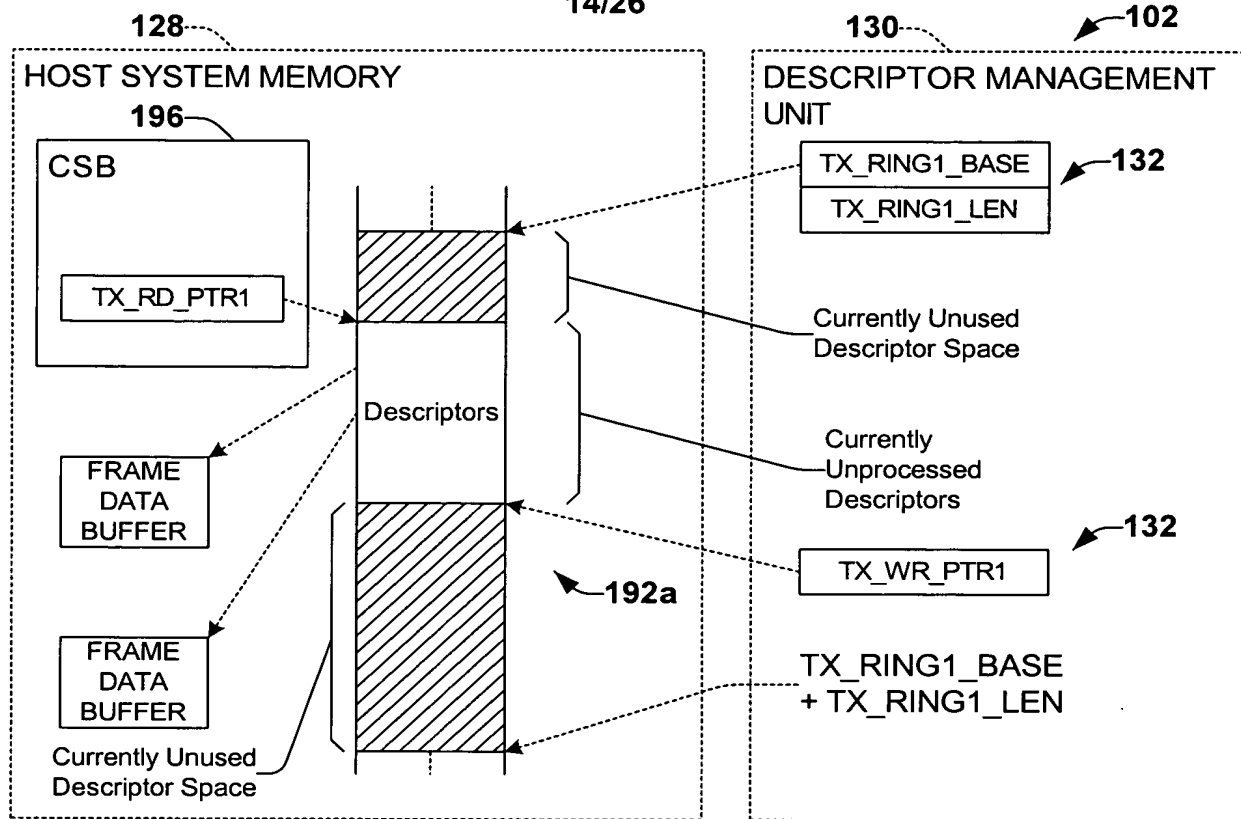


FIG. 11D

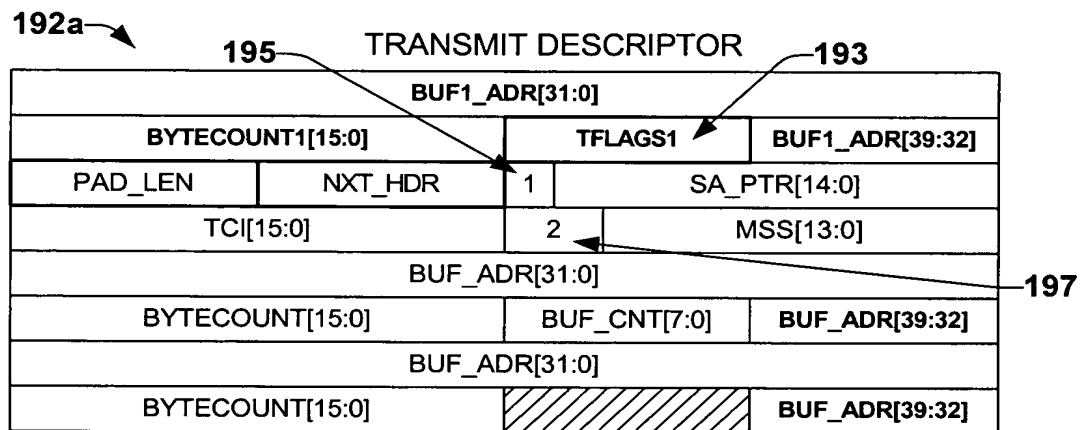


FIG. 11E

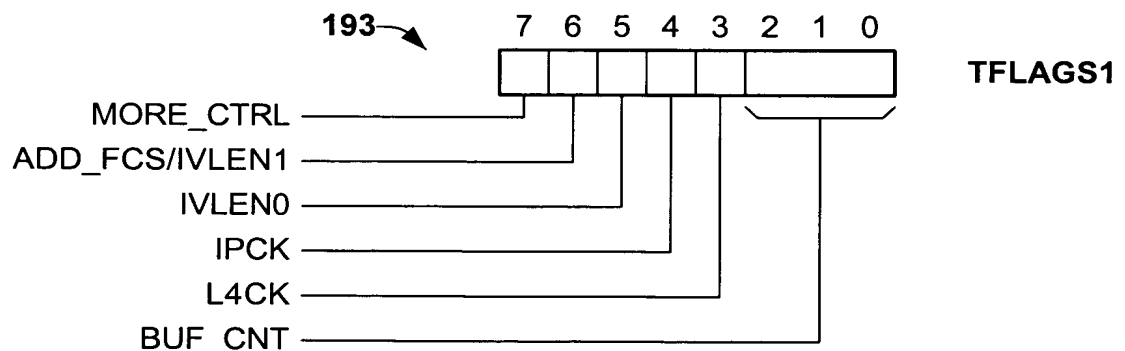


FIG. 11F

192b

RECEIVE DESCRIPTOR

BUF_ADR[31:0]		
RES	BUF_MULT[7:0]	BUF_ADR[39:32]

FIG. 11G

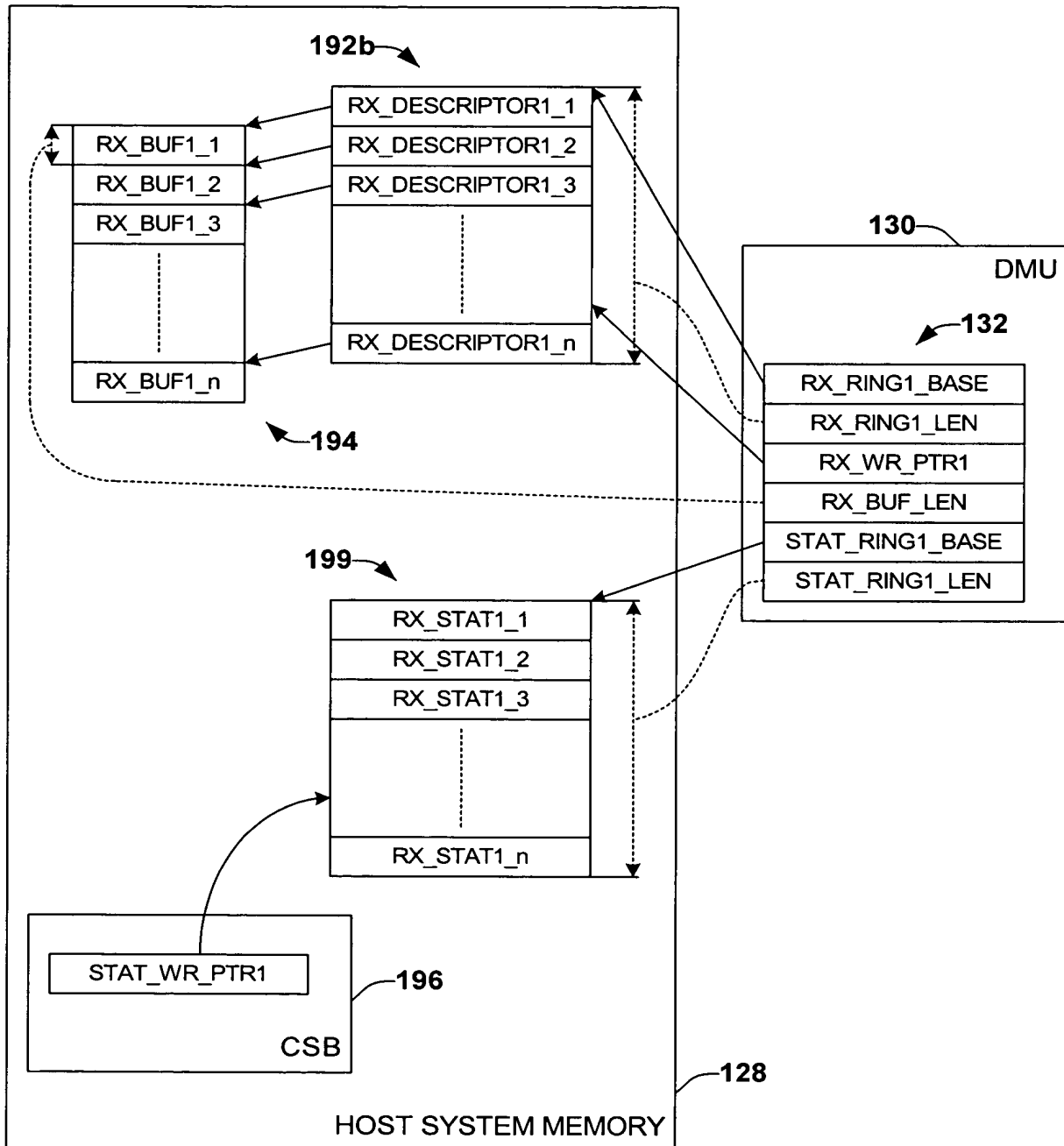


FIG. 11H

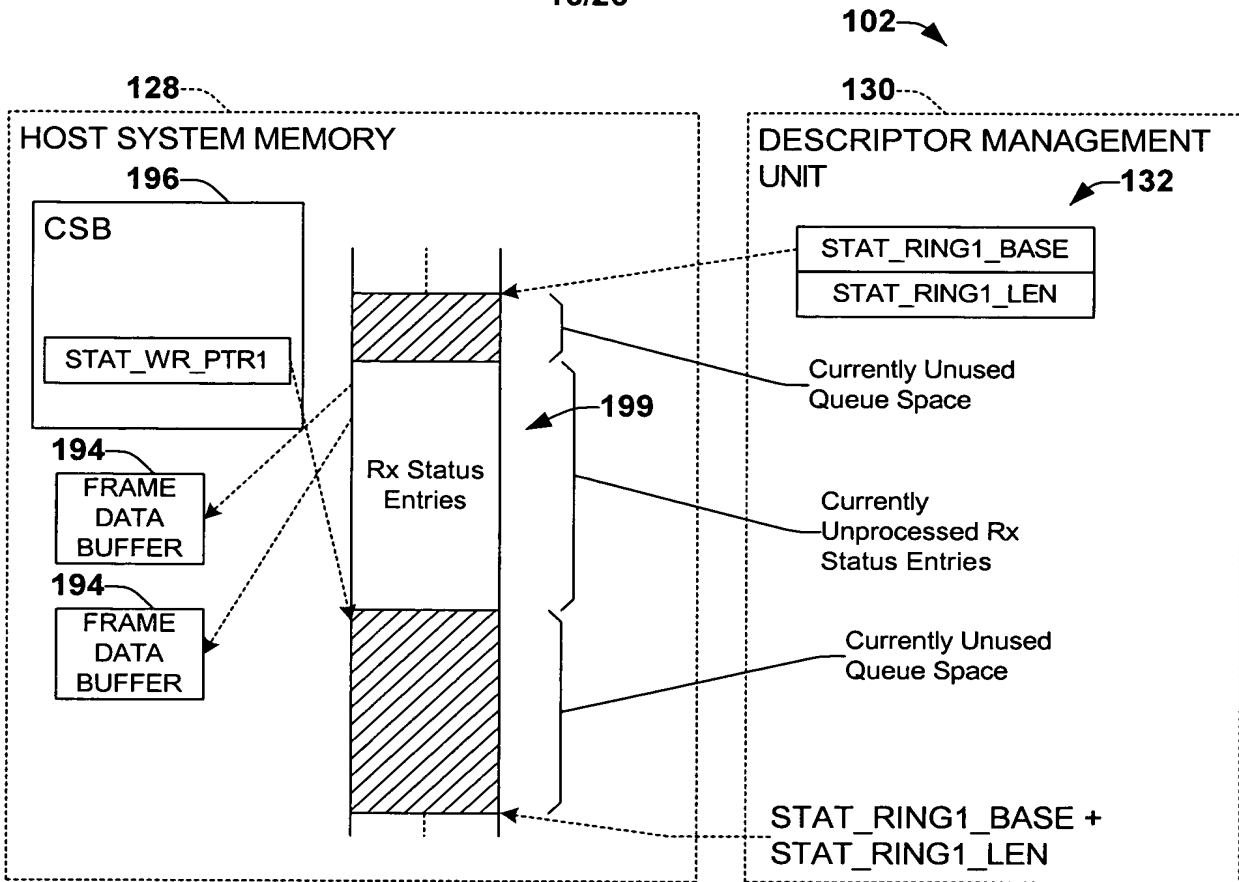


FIG. 11I

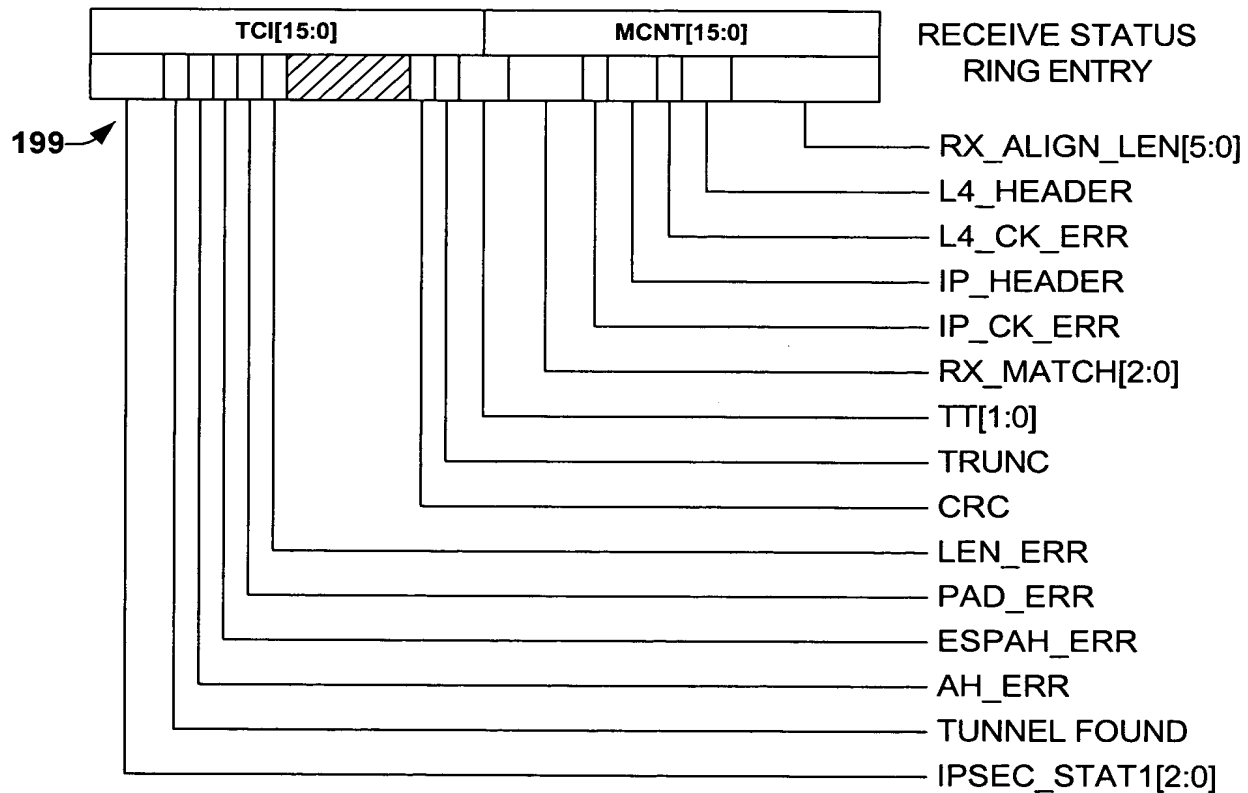
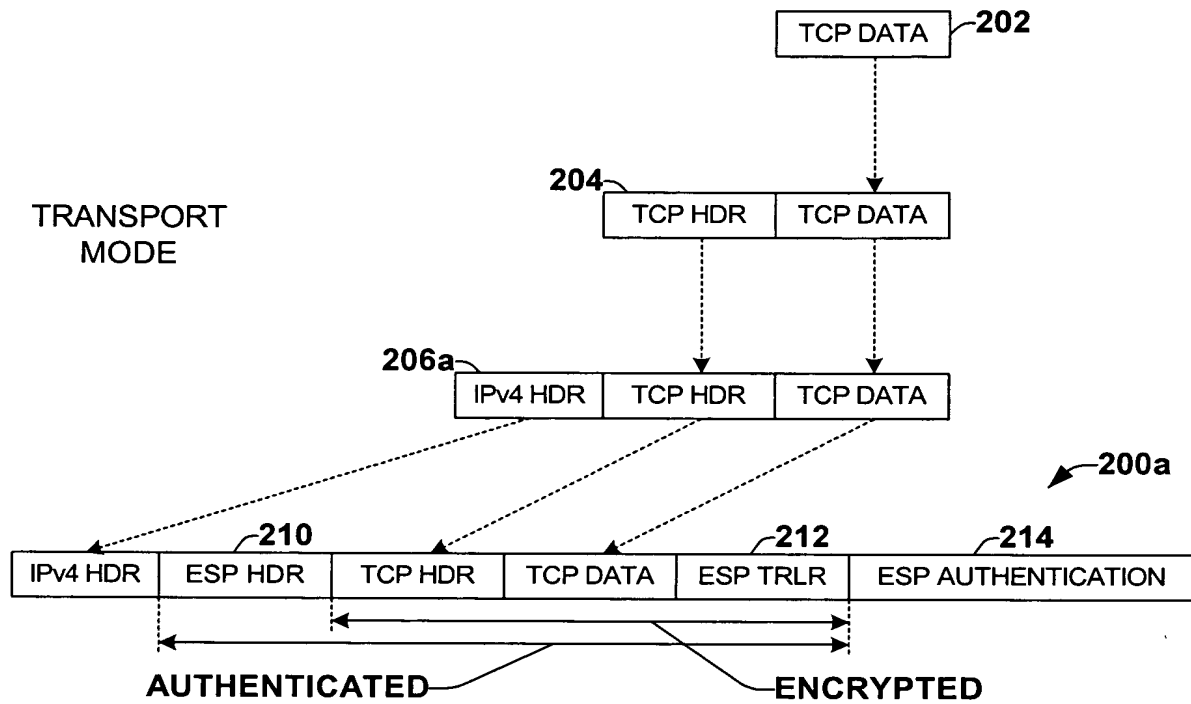
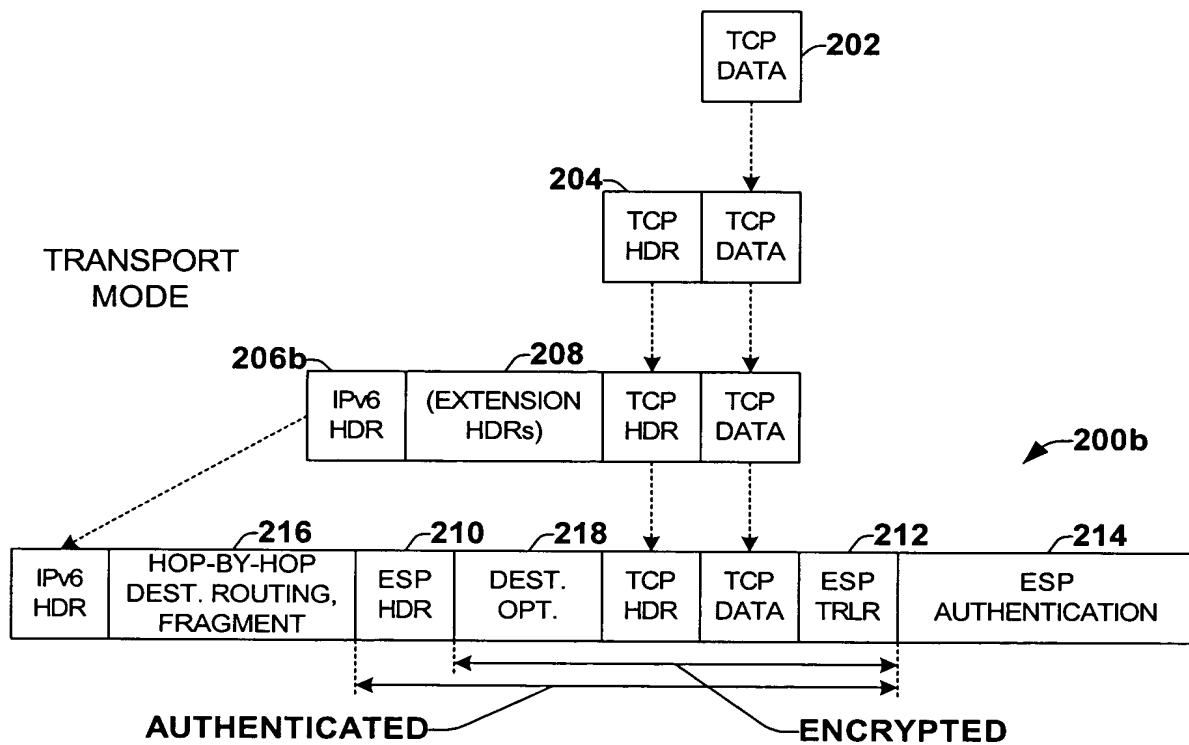


FIG. 11J

**FIG. 12A****FIG. 12B**

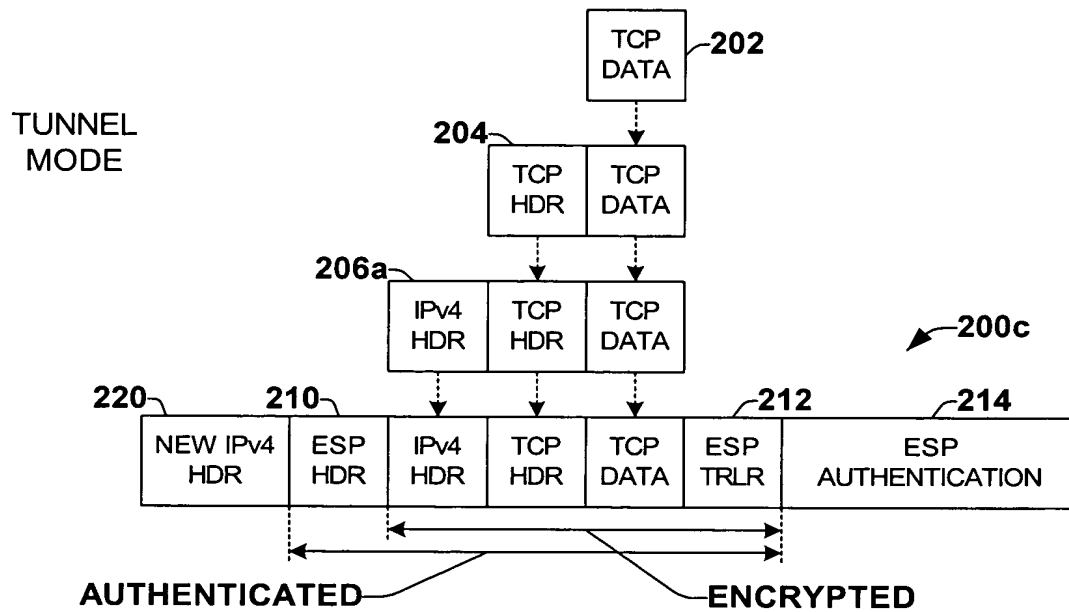


FIG. 12C

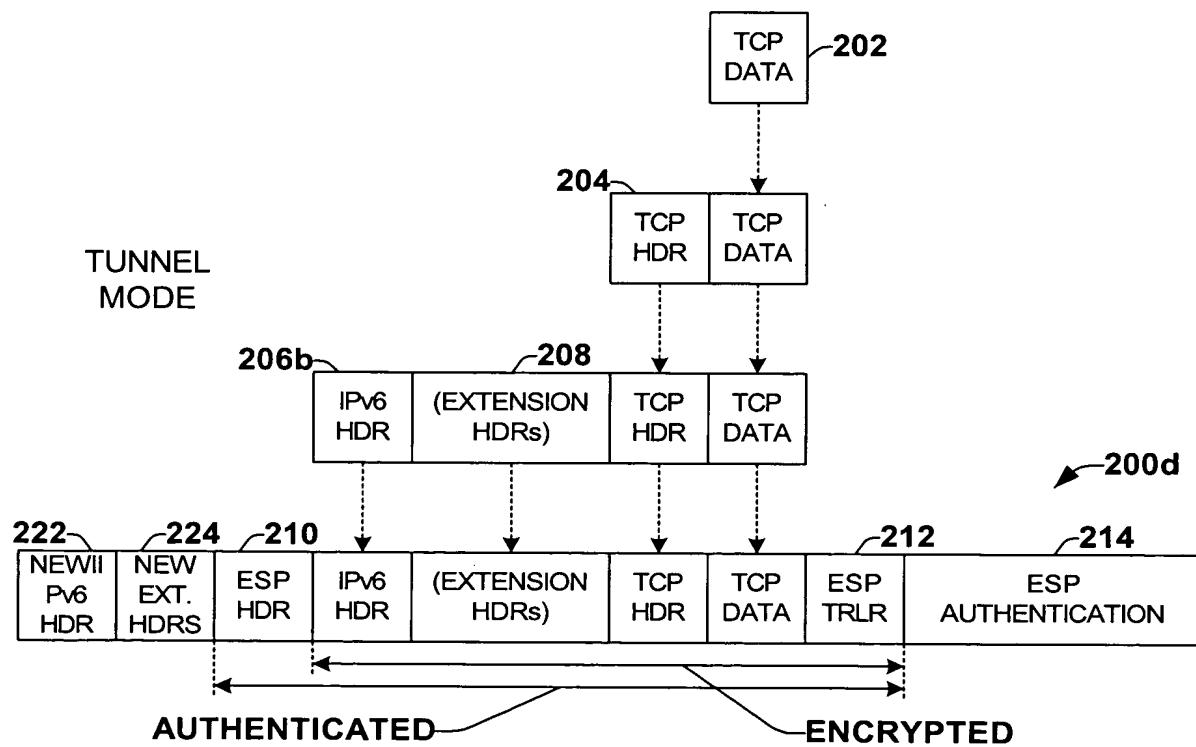
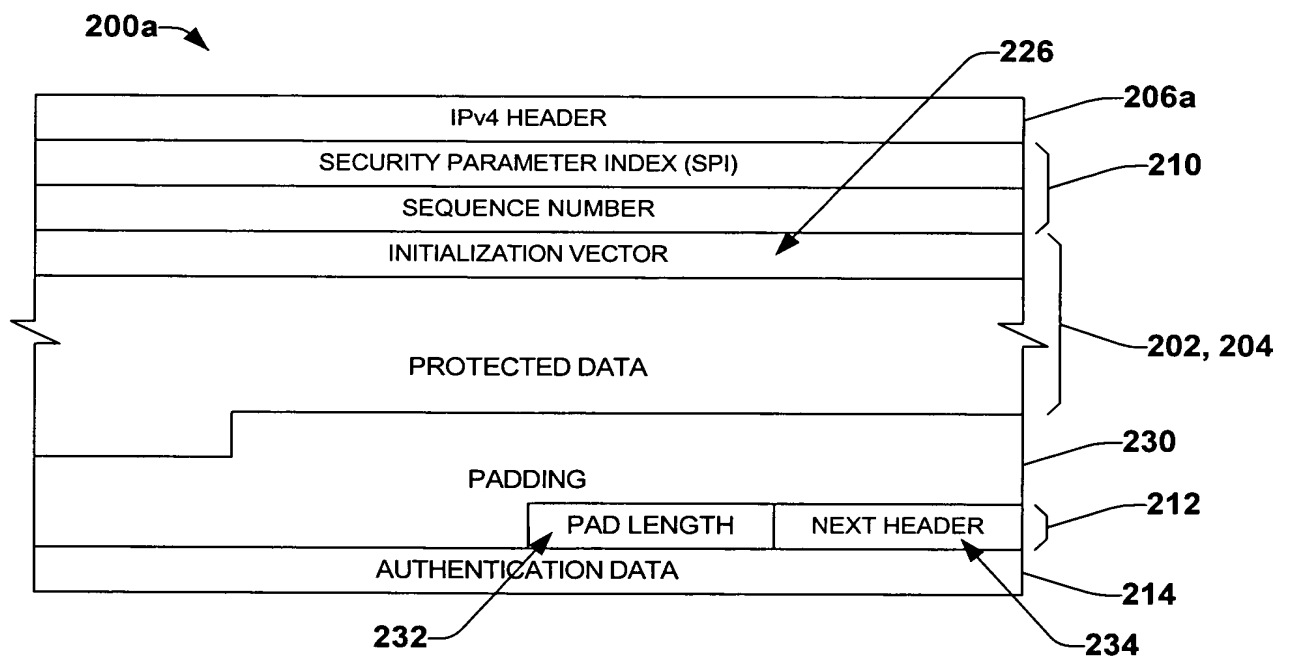


FIG. 12D

**FIG. 12E**

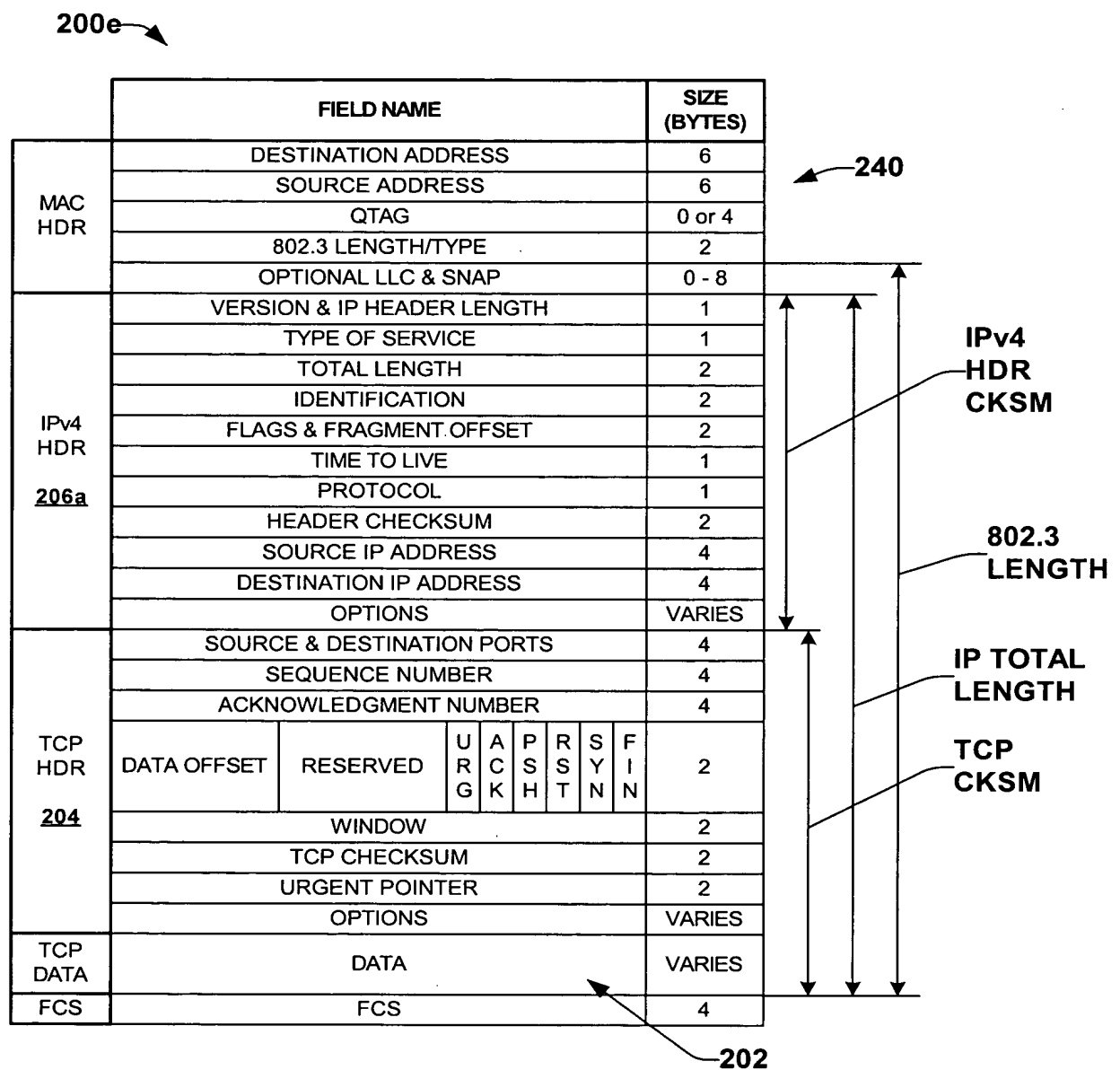


FIG. 13A

200f

		FIELD NAME								SIZE (BYTES)
MAC HDR	DESTINATION ADDRESS									6
	SOURCE ADDRESS									6
	QTAG									0 - 4
	LENGTH/TYPE									2
	OPTIONAL LLC & SNAP									0 - 8
IPv6 HDR 206b	VERSION, TRAFFIC CLASS, & FLOW LABEL									4
	PAYLOAD LENGTH									2
	NEXT HEADER									1
	HOP LIMIT									1
	SOURCE IP ADDRESS									16
	DESTINATION IP ADDRESS									16
	EXTENSION HEADERS									VARIES
TCP HDR 204	SOURCE & DESTINATION PORTS									4
	SEQUENCE NUMBER									4
	ACKNOWLEDGMENT NUMBER									4
	DATA OFFSET	RESERVED	URG	ACK	PSH	RST	SYN	FIN	2	
	WINDOW									2
	TCP CHECKSUM									2
	URGENT POINTER									2
	OPTIONS									VARIES
TCP DATA	DATA									VARIES
FCS	FCS									4

240

802.3
LENGTH

PAYLOAD
LENGTH

TCP CKSM

202

FIG. 13B

250

FIELD NAME	Created by Host	Modified by ESP	Encrypted	Covered by ESP Authentication	Added by Controller
Preamble					x
Start of Frame Delimiter					x
MAC Header	x				
IP Header	x				
ESP Header	x			x	
Payload Data	x	x	x	x	
Padding	x	x	x	x	
Pad Length	x	x	x	x	
Next Header	x	x	x	x	
Authentication Data	x	x			
Frame Check Sequence					x

FIG. 14A

252

FIELD NAME	Created by Host	Modified by AH Module	Covered by AH Authentication	Added by Controller
Preamble				x
Start of Frame Delimiter				x
MAC Header	x			
IP Header	x		x	
AH Header	x	x	x	
Other Headers	x		x	
Payload Data	x		x	
Frame Check Sequence				X

FIG. 14B

254

PHCKSM FOR IPv4	
32-BIT IP SOURCE ADDRESS	
32-BIT IP DESTINATION ADDRESS	
ZERO	PROTOCOL
TCP TOTAL LENGTH	

FIG. 14C

256

PHCKSM FOR IPv6	
128-BIT IP SOURCE ADDRESS	
128-BIT IP DESTINATION ADDRESS	
16-BIT TCP TOTAL LENGTH	
ZERO	PROTOCOL

FIG. 14D

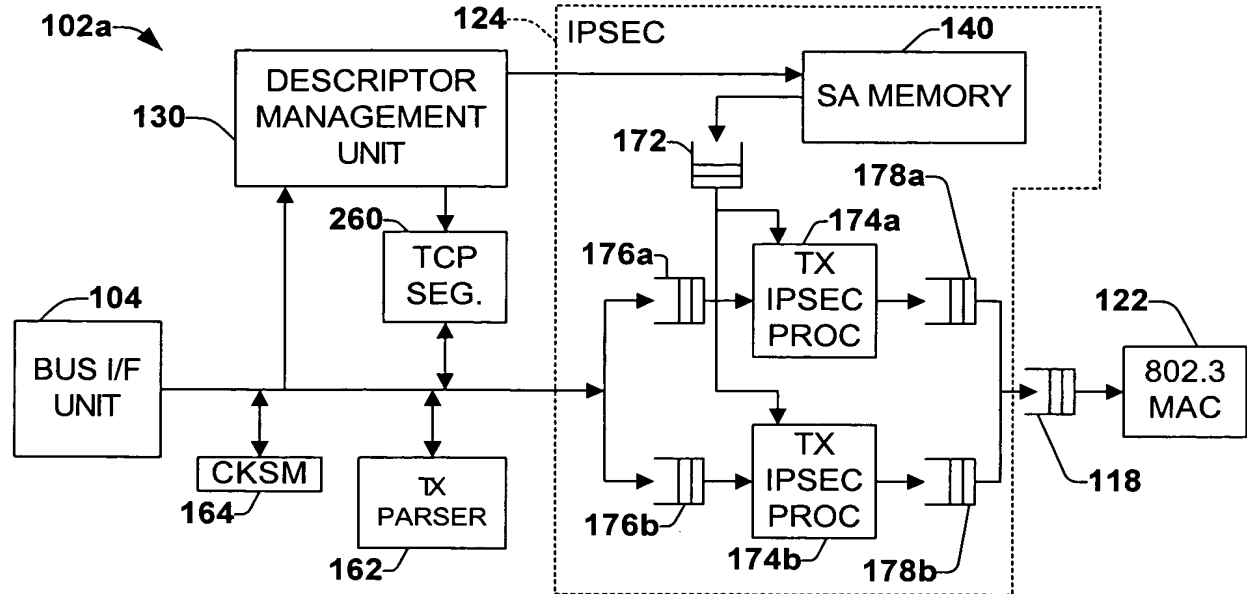


FIG. 15

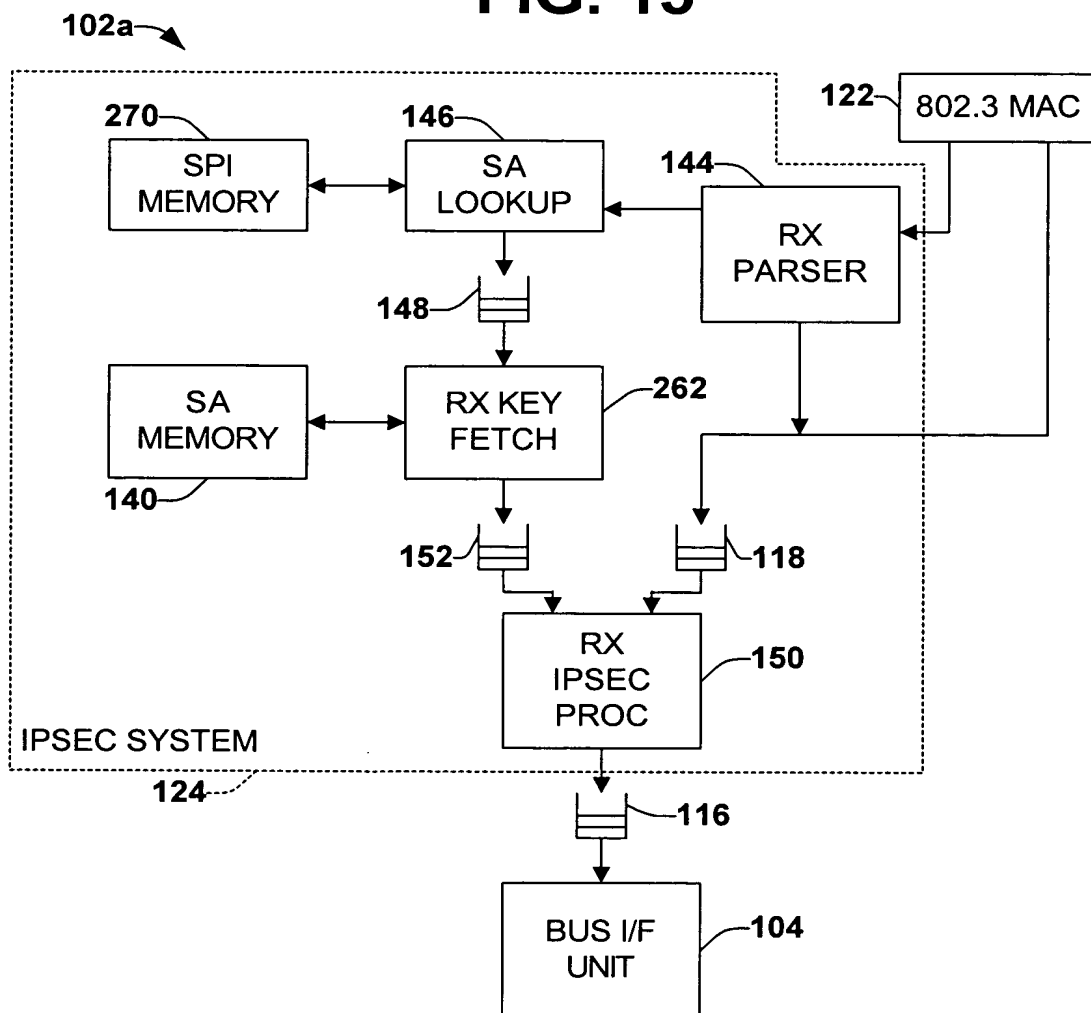


FIG. 16

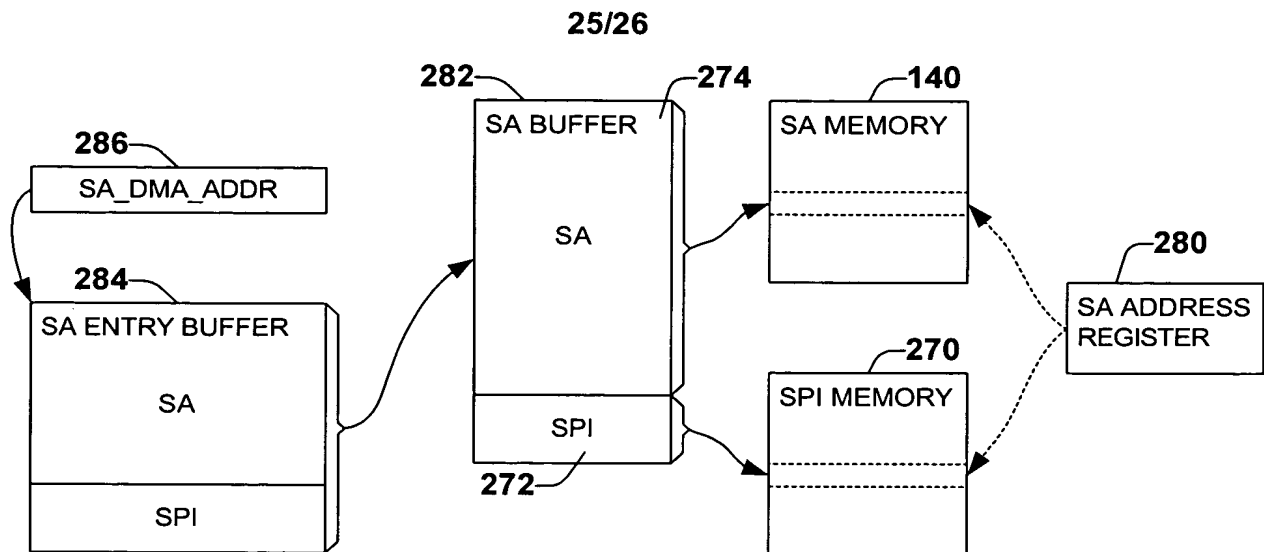


FIG. 17A

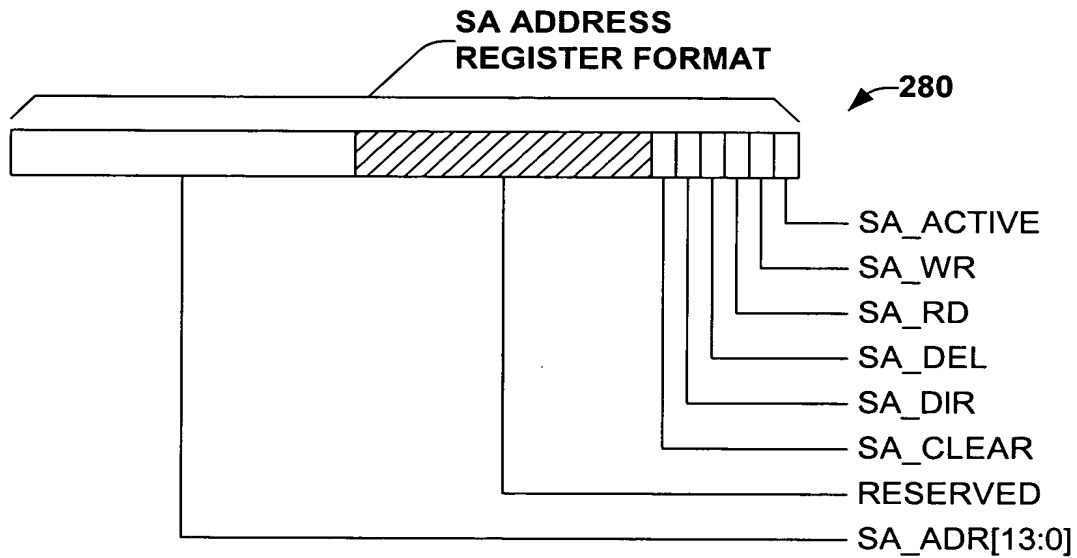


FIG. 17B

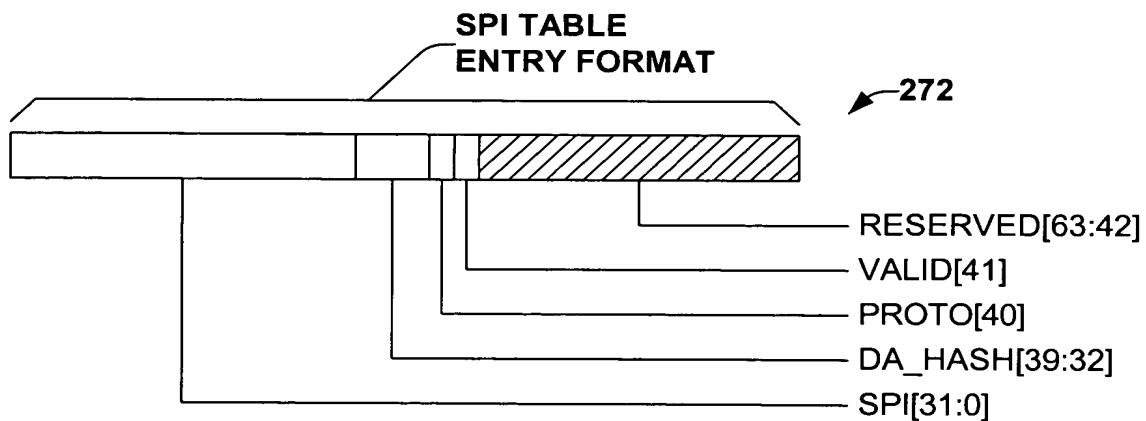


FIG. 17C

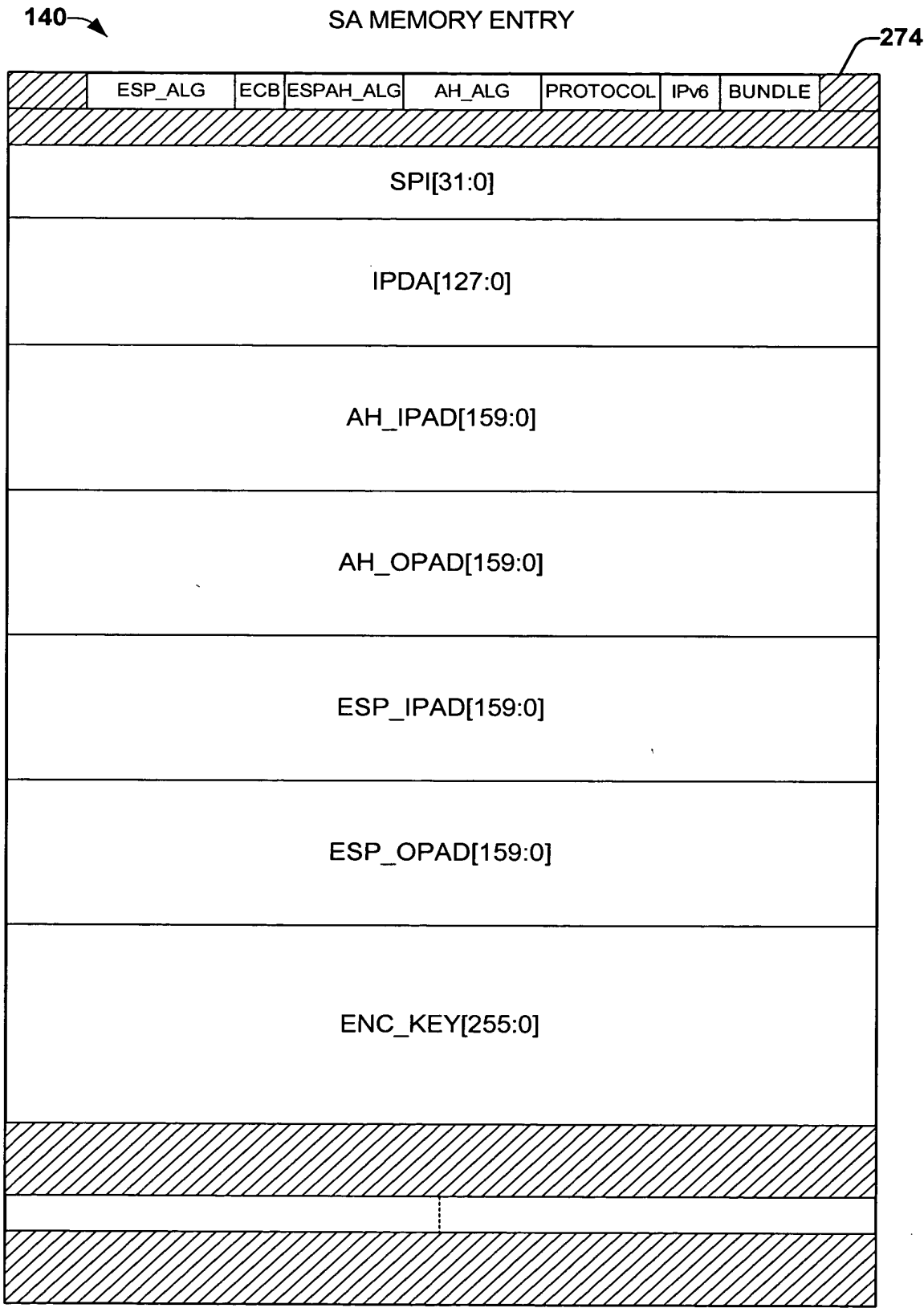


FIG. 17D